

CUSTOMER

Montichiari (BS), Italy

Years of activity Industry Production process

Wastewater

50

Mechanical

Aluminum die-casting for

office components

Oil emulsion with

releasing agent

CHALLENGE

Customer's needs

Reduce the disposal costs and reuse the distillate.

Goals to achieve

- To obtain a high distillate quality for the reuse
- To concentrate as much as possible to reduce disposal costs

SOLUTION SUPPLIED

DESCRIPTION OF THE SUPPLIED SOLUTION	ECO 30.0 It works v consump
% WATER REUSE	97%
CONCENTRATION FACTOR	30
ZLD?	Yes



DOO DPM-3 is a triple effect evaporator with submerged heat exchangers. with thermal energy, so hot water (or steam) and cold water. With a triple effect the energy otion is reduced enormously. High final oil concentrations are achievable.

ETERS	UNIT	WASTEWATER INLET	DISTILLATE	CONCENTRA
		6	6,5	7,1
	%	0,85	/	> 25
lity	μS/cm	1090	< 150	/
	ppm	26255	< 1200	/





CONCLUSIONS

Thanks to our solution, the customer immediately had benefits in terms of disposal costs reduction: in fact, the payback period was less than 3 years.

With the distillate the customer produces new emulsions for the process and thus, it occurs a drastic reduction in terms of fresh water used.

Maintenance on this unit is negligible: the customer cleans the unit just twice per year with a diluted chemical solution. This is enough to keep the evaporator efficiency constant, with particular reference to heat exchangers.

Recently the client bought another ECO 30.000 DPM-3 for an increase in the volumes of wastewater produced. This is the best demonstration of the customer satisfaction.

MASS BALANCE







The installed plant during regular daily functioning







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